

Appl. No. 09/683,924
Amdt. dated 10/16/2003
Reply to Office action of 04/16/2003

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): An image comparator, comprising:

- a) an electronic image display, which provides a reference image;
- b) a first mirror, which making reflection of the first image;
- c) a first light source, which illuminates first pattern for a first image;
- d) a first splitter mirror, which making partial penetration of the first image, the second image, the reference image and reflection of the first image[.] with mirror to form an optical path, both reference image and image of pattern are projected to splitter mirror.;
- e) a second light source, which illuminates second pattern for a second image;
- f) a second splitter mirror, which making partial penetration of the second image and reflection of the reference image;
wherein said the reference image is projected to the second splitter mirror, then being reflected to the first splitter mirror, has the same optical distance as the first image projected through the first splitter mirror, to the first mirror, then being reflected to the first splitter mirror, and has the same optical distance as the second image projected through the second splitter mirror, then to the first splitter mirror.

Claim 2 (canceled)

Claim 3 (canceled)

Claim 4 (canceled)

Claim 5 (canceled)

Claim 6 (canceled)

Claim 7 (canceled)

Claim 8 (canceled)

Claim 9 (currently amended): [The] An image comparator in accordance with claim 7, comprising:

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a) an electronic image display, which provides a reference image;
b) a first light source, which illuminates a first pattern for a first image;
c) a second light source, which illuminates a second pattern for a second image;
d) a first mirror, which making reflection of the first image;
e) a first splitter mirror, which making partial penetration of the first image, and reflection of the second image, the reference image;
f) a second splitter mirror, which making partial penetration of the reference image and reflection of the second image;
wherein said the reference image is projected through the second splitter mirror, to the first splitter mirror, has the same optical distance as the first image projected to the first splitter mirror, being reflected to the first mirror, then being reflected to the first splitter mirror, and has the same optical distance as the second image projected to the second splitter mirror, then being reflected to the first splitter mirror.

Claim 10 (currently amended): [The] An image comparator in accordance with claim 7,
further comprising a second mirror and a lens[.], comprising:

a) an electronic image display, which provides a reference image;
b) a first light source, which illuminates a first pattern for a first image;
c) a second light source, which illuminates a second pattern for a second image;
d) a first mirror, which making reflection of the first image and the second image;
e) a second mirror, which making reflection of the second image;
e) a first splitter mirror, which making partial penetration of the first image, the reference image, and reflection of the first image, the second image;
f) a second splitter mirror, which making partial penetration of the second image and reflection of the first image, the second image;
g) a lens, which magnifying the the first image and the second image;
wherein said the reference image is projected to the first splitter mirror, has the same optical distance as the first image projected through the first splitter mirror, to the second splitter mirror, being reflected through the lens, to the first mirror, being reflected back to the second splitter mirror, then being reflect to the first splitter mirror, and has the same optical distance as the second image projected to the second mirror, being reflected through the second splitter mirror and the lens, to the first mirror, being reflected back to the second splitter mirror, then being reflect to the first splitter mirror.

Claim 11 (canceled)

Claim 12 (currently amended): The image comparator in accordance with claim [11] 10,
wherein said lens moves along the optical axis between first mirror and second splitter mirror.

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Claim 13 (canceled)

Claim 14 (currently amended): The image comparator in accordance with claim ~~8, 9, or 11~~ 1, 9 or 10 further ~~more~~ comprising an image display switching control unit which having alternating electronic signal controlling on/off status of first light source and second light source and light of electronic image display alternatively.

Claim 15 (canceled)

Claim 16 (currently amended): The image comparator in accordance with claim ~~8, 9, or 11~~ 1, 9 or 10, ~~furthermore~~ further comprising: a) a first liquid crystal panel with a polarizer, which place between first pattern and first splitter mirror; b) a second liquid crystal panel with a polarizer, which place between second pattern and second splitter mirror; c) a polarizer, which place between electronic image display and splitter mirror; d) an image display switching control unit, which having alternating electronic signal controlling on/off status of first liquid crystal panel and second liquid crystal panel and light of reference image alternatively.